

CIRCULARLY POLARIZED ANTENNA HAVING IMPROVED AXIAL RATIO

ABSTRACT OF THE DISCLOSURE

5 A circularly polarized antenna system having improved axial ratio is disclosed. The
antenna system comprises a circularly-polarized antenna, and a high-impedance buffer
surface, surrounding the circularly polarized antenna, and disposed between the circularly
polarized antenna and a ground plane. The width of the high-impedance buffer surface
between the circularly-polarized antenna and the ground plane is selected to achieve an H-
10 plane radiation pattern substantially identical to an E-plane radiation pattern over a desired
scan angle.

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